

**A NEW SPECIES OF *AGERATINA* (ASTERACEAE: EUPATORIEAE)
FROM SINALOA, MEXICO**

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ABSTRACT

A new taxon, *Ageratina concordiana* B.L. Turner, **sp. nov.**, belonging to the *A. capillipes* complex, is described from southern Sinaloa. A photograph of the type is provided, along with a map showing the distribution of the new species and other members of the complex.

KEY WORDS: Asteraceae, Eupatorieae, *Ageratina*, *A. capillipes*, Mexico, Sinaloa

Ongoing identification of the Asteraceae from Mexico has occasioned the present paper.

AGERATINA CONCORDIANA B.L. Turner, **sp. nov.** Figure 1. **TYPE: MEXICO. Sinaloa.** Mpio. de Concordia: Transecto de Rancho Coyotes a El Pirame, Comunidad La Guásima, herbácea común localmente en la zona de trompetas-roblar, 23° 23.289' N, 105° 58.7' W — 23° 24.911' N, 105° 59.387' W, 411–728 m, 3 Mar 2010, *Marcela Ruiz Guerrero 2010-105* [with Albert van der Heiden] (holotype: TEX).

Resembling *Ageratina reserva* B.L. Turner, differing in having larger, sub-cordate blades, ultimate peduncles minutely glandular pubescent, and smaller heads (ca 4 mm high vs. 5 mm).

Perennial herbs, 50 cm high or more. **Midstems** sparsely pubescent with minute hairs or glabrate. **Leaves** (upper), 11–14 cm long, 6–7 cm wide; petioles 4–6 cm long, pubescent like the stems, grading into the blades; blades subcordate, glabrous above and below, or nearly so, 3-nervate from the very base, margins irregularly serrate. **Heads** ca 4 mm high, 3 mm wide, numerous and arranged in both lateral and terminal congested cymose panicles, ultimate peduncles 2–5 mm long, minutely glandular pubescent. **Involucral bracts** 16–18, 2–3 mm long, glabrous or nearly so, arranged in 2 series. **Florets** 12–20 per head; corollas white, ca 2.5 mm long, lobes sparingly pubescent. **Achenes** (immature) ca 1 mm long, sparsely pubescent; pappus of ca 10 fragile, pinkish, bristles ca 1.5 mm long. Noted by collectors to have "olor dulce a miel."

The epithet is derived from the Mpio. de Concordia, whence the type.

In my treatment of *Ageratina* for Mexico (Turner 1997), the novelty will key directly to *A. helenae* King & Rob., a mostly Central American species treated as a synonym of *A. capillipes* by Williams (1976). I now believe that *A. helenae* is confined to Central America.

Ageratina concordia clearly belongs to the *A. capillipes* King & Rob. complex of Mexico (sensu Turner 2012), where it will key to the Chiapanan *A. reserva* B.L. Turner, differing from the latter in having larger, subcordate blades, ultimate peduncles minutely glandular pubescent and smaller heads (ca 4 mm high vs 5 mm). With description of the present novelty, the complex in Mexico now includes 5 species (Fig. 2). The following key, modified from that presented by Turner (2012), should help identify the taxa concerned.

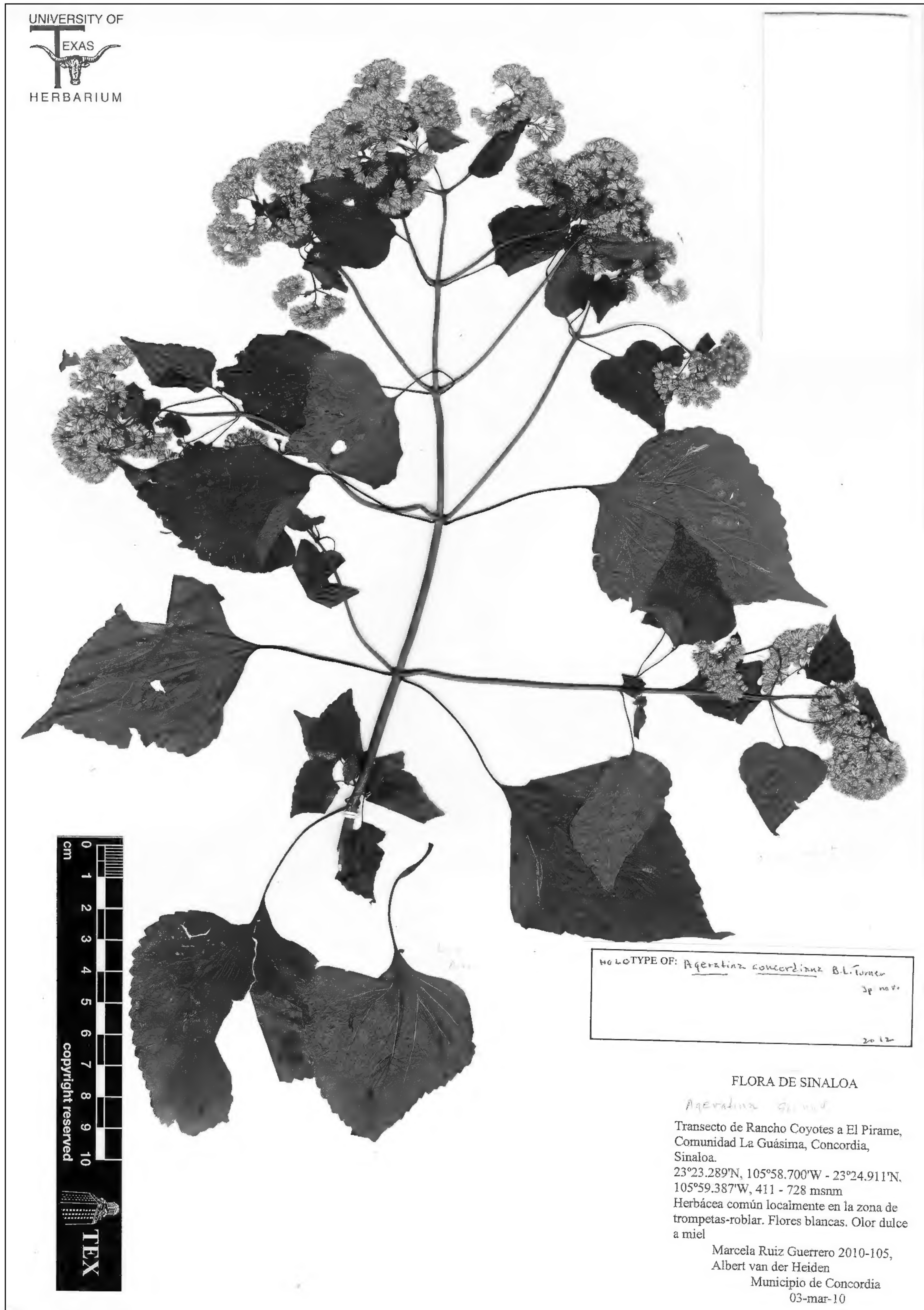


Figure 1. *Ageratina concordiana* (holotype TEX).

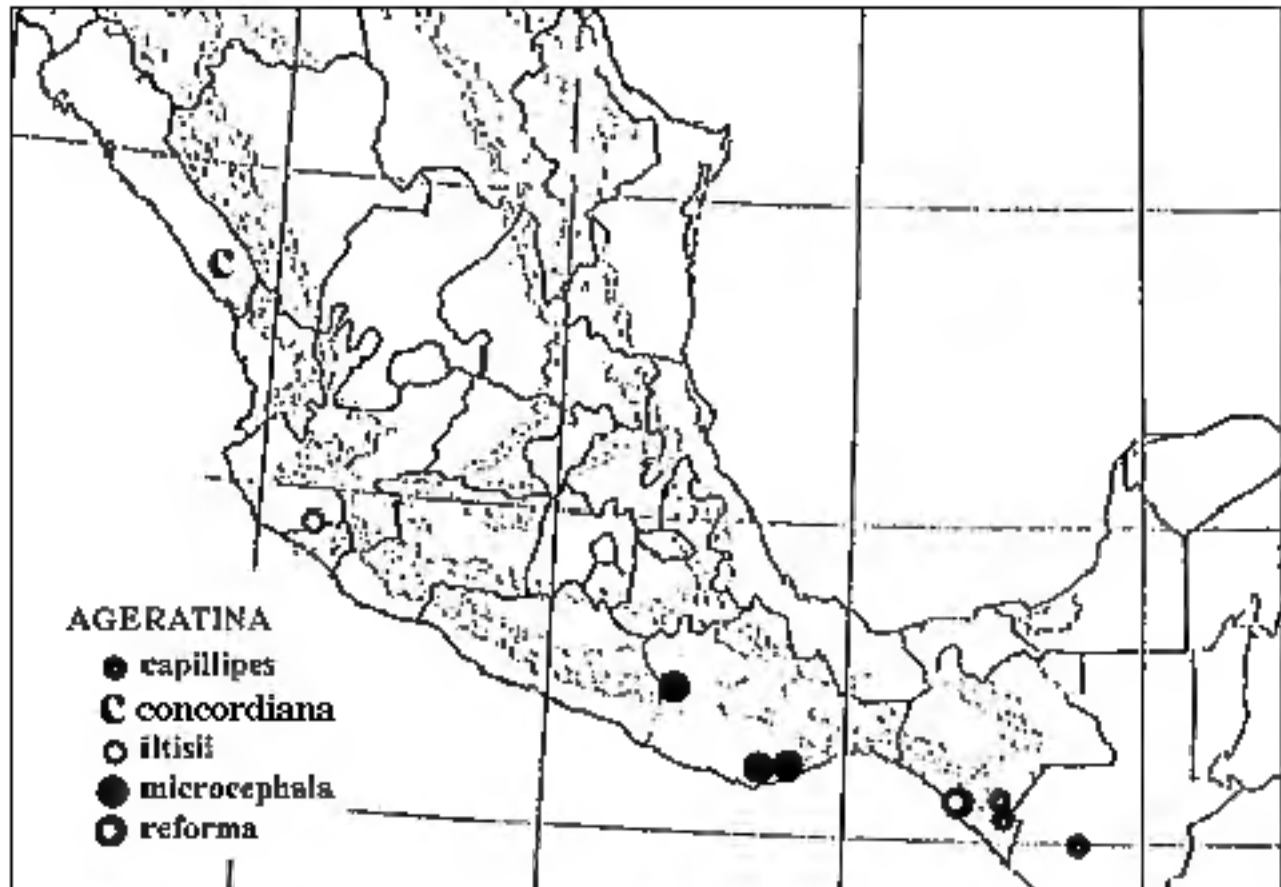


Figure 2. Distribution of the *Ageratina capillipes* complex in Mexico.

Key to species of the *Ageratina capillipes* group in Mexico

1. Leaf blades 3–5 nervate from above the base.
 2. Leaf blades 5–7 cm wide; Oaxaca *Ageratina microcephala*
 2. Leaf blades 2–4 cm wide; Chiapas and Guatemala *Ageratina capillipes*
1. Leaf blades 3-nervate from the very base.
 3. Petioles much shorter than 1/2 the blade length; Jalisco *Ageratina iltisii*
 3. Petioles 1/2 as long as the blades or more.
 4. Leaves subcordate, 11–14 cm long, 6–7 cm wide; ultimate peduncles minutely glandular pubescent; Sinaloa *Ageratina concordiana*
 4. Leaves broadly ovate to subdeltoïd, 7–11 cm long, 3.5–4.0 cm wide; ultimate peduncles pubescent with upturned, multiseptate, eglandular trichomes; Chiapas *Ageratina reforma*

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